

THANK YOU

FOR PURCHASING A UNIDEN PRODUCT

CHECK OUT THE

LATEST ACCESSORIES

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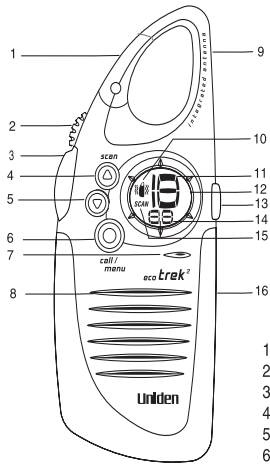
eco trek² family radio service 2-way radio

FRS420



- 14 Channels
- 38 CTCSS Codes
- Up to 2 mile range*
- LCD Display
- 5 Selectable Call Tone Alerts
- Vibrate Alert for incoming calls
- Channel Scan
- Channel Monitor
- Audible Low Battery Indicator
- Optional Headset Accessories
- Optional NiMH Battery Pack

*Range may vary depending in environmental and/or topographical conditions.



- 1 Sport Clip
- 2 Volume Control
- 3 PTT Button
- 4 Up Key
- 5 Down Key
- 6 Call/Menu Key
- 7 Microphone
- 8 Speaker
- 9 Intergrated Antenna
- 10 Vibrate Indicator
- 11 Channel Indicator
- 12 Display
- 13 Accessory Jack
- 14 CTCSS Code
- 15 Scan Indicator
- 16 Battery Compartment (located on rear of unit)

Congratulations on your purchase of the Uniden FRS420 Family Radio. This product is a light-weight, palm-sized radio with a unique carabineer design allowing you to "clip" the radio to almost anything and carry it almost anywhere. Use it at shopping malls, amusement parks, or sporting events to stay in contact with family and friends, or in a neighborhood watch for vital communication. This compact, state-of-the-art device is equipped with many features.

OPTIONAL ACCESSORIES

Your package contains the FRS420 radio, this reference guide, and a product registration card. You will need to purchase 3 AA Alkaline batteries in order to operate the unit. The following optional accessories may be purchased from your participating Uniden dealer or call 1-800-554-3988 or visit us on the web at www.uniden.com

- Earset Mic w/ PTT - #HS2468
- Vox Headset Mic - #HSV2469
- NiMH Battery Pack w/AC Charger and DC Car Charger - #BPCC240
- Multi Color Battery Covers - Available at www.uniden.com

INSTALL THE BATTERY

Your FRS420 radio uses 3 AA Alkaline batteries for power. We recommend using Duracell Ultra alkaline batteries.



To install the batteries:

- 1) Make sure your radio is off.
- 2) Remove the battery compartment door by sliding it down from the unit.
- 3) Install 3 AA Alkaline batteries (not included) into the battery compartment. Be certain to follow the + and - symbols in the compartment. Installing the batteries incorrectly will prevent the unit from operating.
- 4) Optional: Your FRS420 radio can be powered using an optional NiMH battery pack specifically designed for this model. Remove the alkaline batteries and install the battery pack by inserting into the battery compartment. Follow the instructions found with the NiMH accessory.
- 5) Replace the battery compartment door by pushing it up until it is secure.

LOW BATTERY ALERT

When the batteries in the unit are low, the unit will emit a low battery tone indication. Replace the batteries immediately to continue using the radio.

USING THE RADIO

In order to get the most out of your new radio, read this reference guide completely before attempting to operate the unit.

Turning the Radio On and Adjusting the Volume

- 1) Rotate the on/off/volume control clockwise to turn the unit on and increase the speaker volume
- 2) Rotate the on/off/volume control counterclockwise to decrease the speaker volume and turn the unit off.

Adjusting the Sound (Key Beeps)

Your radio emits a beep each time one of the buttons is pressed. To turn this sound off, press **call/menu** while turning on the radio. To turn this sound on, press **call/menu** while turning on the radio again.

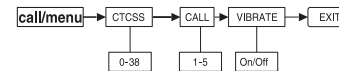
Choosing a Channel

Your radio has 14 channels and 38 CTCSS codes you can use to talk to others. In order to speak to someone, each of you must be set to the same channel and CTCSS code.

To choose a channel: Press the ▲ or ▼ button to increment or decrement the channel number displayed.

Navigating through the Menu

To access the advanced features of the FRS420, your radio has a menu function.



- 1) To enter the menu, press and hold the **call/menu** button for 1 second until the CTCSS code flashes.
- 2) Additional presses of the **call/menu** button will advance through the menu until exiting to "normal" operating mode.
- 3) Other methods of exiting the menu function are:
 - a. Press and hold the **call/menu** button for 1 second again.
 - b. Press PTT.
 - c. Wait 10 seconds until the unit automatically returns to "normal" mode.

Choosing a CTCSS Code

Each of the FRS channels 1-14 may have any one of the codes 0-38 selected. Code "0" indicates no CTCSS code selected and your radio can receive a signal regardless of the code settings of the transmitting radio.

- 1) Enter the menu. The CTCSS code on the LCD display will flash.
- 2) Press the ▲ or ▼ button to increment or decrement the code number displayed.
- 3) Exit the Menu to return to "normal" mode.

Talking on Your Radio

To talk to others using the radio:

- 1) Press and hold the PTT button and speak in a clear, normal voice about 2-3 inches away from the microphone. To avoid cutting off the first part of your transmission, pause slightly after pressing the PTT button before you start talking.
- 2) When you are finished speaking, release the PTT button.

Press the **call/menu** button to send an alert tone to others in your party. The tone will automatically be transmitted for a fixed length of time.

Transmitting a Call Alert Tone:

Your FRS420 radio is equipped with 5 selectable call tones that will be transmitted when the **call/menu** button is momentarily pressed.

To select a call tone:

- 1) Enter the Menu and then press the **call/menu** button once. The letters CA will show on the display along with the current call tone number (1-5).
- 2) Press the ▲ or ▼ button to increment or decrement the number to the desired call tone. Each tone will be heard through the speaker.
- 3) Exit the Menu.

To transmit the selected call alert tone, momentarily press the **call/menu** button. The selected tone will automatically be transmitted for a fixed length of time.

Note: Do not hold the **call/menu** button down as this will cause the unit to enter the Menu mode.

Vibrate Alert for Incoming Calls

Your FRS420 radio is equipped with a vibrator that can be used for notification of an incoming call alert from other Uniden radios equipped with the same feature.

To select the vibrate alert:

1) Enter the Menu and then press the **call/menu** button twice. The **VIBRATE** icon on the LCD display will be shown along with on or off indicating the vibrate alert feature status.

2) Press either the **▲** or **▼** button to toggle the feature on or off.

3) Exit the Menu.

Channel Scan Feature

Your FRS420 radio has a channel scan feature that allows you to easily scan all 14 channels. When an active channel is detected, the unit will pause on that channel until the channel is clear. Then after a 4 second delay, the unit will continue scanning. Pressing PTT while the scan is paused on a channel will allow you to transmit on that channel.

To turn on channel scanning:

Press and hold either the **▲** or **▼** button until the **SCAN** icon on the display is shown. The channel number on the display will rapidly cycle through the channels.

To turn off channel scanning:

Press any key to cancel **SCAN** mode.

LCD Backlight

The LCD backlight will automatically turn on with any key press. The LCD display will illuminate for 5 seconds before turning off.

Auto Squelch Feature

The FRS420 radio is equipped with an automatic squelch system which shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

To temporarily disable the Auto Squelch and listen to the selected channel, rapidly press the PTT button twice. The channel will remain open until the PTT button is pressed.

To re-engage the Auto Squelch, repeat the double PTT key press.

Automatic Power Save Feature

Your radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission within 5 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

SPECIFICATIONS

Channels	14
CTCSS Codes	38 Sub-Audible Tones
Operating Frequency	UHF 462.550-467.725 MHz
Power Source	3AA Alkaline Batteries or custom NiMH Battery Pack
Output Power	500mW ERP maximum
Battery Life	50 Hours (5/5/90 duty cycle)

Frequency Chart

Ch.	Freq.	Ch.	Freq.
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

CTCSS Chart (Hz)

Code	Freq.	Code	Freq.
0	Disabled	20	131.8
1	67.0	21	136.5
2	71.9	22	141.3
3	74.4	23	146.2
4	77.0	24	151.4
5	79.7	25	156.7
6	82.5	26	162.2
7	85.4	27	167.9
8	88.5	28	173.8
9	91.5	29	179.9
10	94.8	30	186.2
11	97.4	31	192.8
12	100.0	32	203.5
13	103.5	33	210.7
14	107.2	34	218.1
15	110.9	35	225.7
16	114.8	36	233.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.30		

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UTZZ-420

Sport Clip - U.S. patent pending

Covered under one or more of the following U.S. patents:

4,684,870	4,734,049	4,963,844	5,203,015	5,214,789	5,491,745
5,497,508	5,517,677	5,557,606	5,613,201	5,628,059	5,634,196
5,634,205	5,678,176	5,722,070	5,787,345	5,526,528	5,574,994
5,610,946	5,697,096	5,717,312	5,901,341	6,021,326	

FCC Information

This device complies with Part 15 of the FCC Rules Subpart-B. Operation is subject to the following conditions:

• This device may not cause harmful interference.

• This device must accept any interference received, including interference that may cause undesired operation.

Important: Do not open your radio to make any internal adjustments. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians using the proper test equipment.

To be safe and sure:

• Never open your radio's case.

• Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by moving your radio away from the receiver. If you cannot eliminate the interference, the FCC requires that you stop using the radio.

Audio Accessories: Do not operate the radio with audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. Always make sure the radio is turned off before plugging audio accessories into the accessory jack.

Hazardous Environments: Do not operate the radio in hazardous environments. Explosion or fire may result. Do not operate the radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Turn your radio OFF to prevent accidental transmission when in a

blasting area or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

Care and Safety: To clean the radio, use a soft cloth dampened with water. Do not use cleaners or solvents because they can harm the body of the unit and leak inside, causing permanent damage. Use a dry, lint-free cloth to clean the battery contacts. Do not submerge the unit in water. If the unit gets wet, turn it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the battery compartment cover off overnight to ensure complete drying. Do not use the radio until the unit is completely dry.

ONE YEAR LIMITED WARRANTY

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden") **ELEMENTS OF WARRANTY:**

Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is:

(A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. **THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OVERPAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor:

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